IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventors:

Katsuhiko HIRAMATSU

Art Unit: 2661

Application No.:

10/019,690

Filed:



January 4, 2002

COMMUNICATION TERMINAL APPARATUS AND DEMODULATION

METHOD

RECEIVED

INFORMATION DISCLOSURE STATEMENT

MAY 2 9 2003

Assistant Commissioner of Patents Washington, DC 20231

Technology Center 2600

Dear Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the art listed on the attached Form PTO 1449. All of these references were cited in a Supplementary European Search Report dated April 23, 2003 (copy attached).

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106. Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,

Date: May 28, 2003

James/E. Ledbetter

Registration No. 28,732

JEL/spp

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FORM PTO-1449 (Rev. 4/92) U.S. Department of Commerce Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

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SERIAL NO.

10/019.690

APPLICANT

Katsuhiko HIRAMATSU

GROUP

2661

MAY 2 8 2003

THE TRADE **U.S. PATENT DOCUMENTS** EXAMINER IF APPROPRIATE CLASS SUBCLASS DOCUMENT NUMBER DATE NAME 5 8 7 2 7 7 5 02/1999 Saints et al. RECEIVED MAY 2 9 2003 Technology Center 2600 FOREIGN PATENT DOCUMENTS SUBCLASS DOCUMENT NUMBER COUNTRY TRANSLATION DATE CLASS YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Supplementary European Search Report dated April 23, 2003. Andrew J. VITERBI: "Principles of Spread Spectrum Communication," April 1995, Addison Wesley, Reading, Massachusetts XP002235877, pp. 84-92. J. K. CAVERS: "An Analysis of Pilot Symbol Assisted Modulation for Rayleigh Fading Channels," IEEE Transactions on Vehicular Technology, IEEE INC. New York, US, vol. 40, no. 4, November 1, 1991, pp. 686-693, XP000278280 ISSN: 0018-9545. S. ABETA, et al.: "Adaptive Channel Estimation for Coherent DS-CDMA Mobile Radio Using Time-Multiplexed Pilot and Parallel Pilot Structures," IEICE Transactions on Communications, Institute of Electronics Information and Comm. Eng. Tokyo, JP, vol. E. 82 B., no. 9, September 1999, XP000904922 ISSN: 0916-8516, pp. 1505-1513. A. F. ALMUTAIRI, et al.: "Performance of Multi-level Modulation In MMSE Receiver Based CDMA Systems," MILCOM 1999. IEEE Military Communications Conference Proceedings. Atlantic City, NJ, October 31- November 3, 1999, IEEE Military Communications Conference, New York: IEEE, US, vol. Vol 1 of 2 Conf. 18, October 31, 1999, XP000921957 ISBN: 0-7803-5539-3, pp. 398-402

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.